

STEPANOV, I.A.

Asbestos cloth cups for sealing steam and pneumatic hammers.
Trakt. i sel'khozmash. 31 no.11:44 N '61. (MIRA 14:12)

1. Glavnyy mekhanik Lopetskogo traktornogo zavoda.
(Hammers)
(Asbestos)

SKORCHELETTI, V.V.; STEPANOV, I.A.; KUKSENKO, Ye.P.

Anodic behavior of alloys of the copper-zinc system in 0.1N.
solution of potassium chloride. Zhur.prikl.khim. 31 no.12:
1823-1831 D '58. (MIREA 12:2)
(Copper-zinc alloys--Electric properties)
(Potassium chloride)

STEPANOV, I.A., elektromekhanik

Instrument for regulating plug relays. Avtom., telem. i
sviaz' 9 no.12:29 D '65.

(MIRA 19:1)

1. Kontrol'no-ispytatel'nyy punkt Velikolukskoy distantsii
Oktyabr'skoy dorogi.

STYANOV, I. A.

"Investigation of Catchers for the Automatic Pouring of Liquid Foods." Cand Tech Sci, "Leninograd Technological Inst of the Food Industry, Leninograd, 1954. (RZhMekh, Mar 55)

SC: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

The flow of water-alcohol and alcohol-water-sugar solutions from orifices and nozzles. I. A. Stepanov. Sibirsk. Prom. 20, No. 4, 20-2(1954). If the π -theorem is written in the form $\pi_1, \pi_2, \pi_3 = 0$, 3 equations can be written for the variables: $\pi_1 = Wdp/\eta = \sqrt{2gHdp/\eta} = Re, \pi_2 = Wn/d = \sqrt{2gHn/\sigma} = K, \pi_3 = Q/Wd^2 = Q/\sqrt{2gHd^2} = \mu_0$, where H the pressure head in m., d the diam. of the orifice in m., Q the discharge in cu.m./sec., η the viscosity in kg.sec./sq.m., σ the surface tension in kg./m., Re the Reynolds number, K a const. which takes into account the influence of the surface tension, and μ_0 a value which is proportional to the discharge. Thus one can rewrite the π theorem as $(Re, K, \mu_0) = 0$, or $\mu = \varphi(Re, K)$, or, as the influence of K is negligible, as $\mu = \varphi(Re)$. Two graphs are presented where $\log \mu_0$ is plotted versus $\log Re$, for the case of the liquid running through a plate with a rounded orifice or through a cylindrical nozzle, resp. For the various solns., which contain 20-40% EtOH and 30-50% sucrose, the equation $\mu = mRe^n$ will fit, where m and n are const., the values of which are presented in tables; they are from case to case different, depending on whether $Re <$ or > 1000 , on whether one uses the orifice or the nozzle, and upon the ratio length/diam. of the nozzle. Werner Jacobson.

STEPANOV, I.A.

Determining the filling and emptying time of a dip-type measuring
hopper. Spirt.prom.21 no.2:10-12 '55. (MLRA 8:10)

1. Leningradskiy likero-vodochnyy zavod.
(Food industry--Equipment and supplies)

Stepanov, I. A.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation
Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63549

Author: Stepanov, I. A.

Institution: None

Title: Technical Progress and Innovator Undertakings

Original
Periodical: Spirt. prom-st', 1955, No 3, 34-37

Abstract: Description of introduction of new techniques at the Leningrad liquor
plant: machinery of new designs, automatic continuous production lines
and innovation attainments of L. A. Bogdanova who operates 4 assembly
units.

Card 1/1

STRPANOV, I.A.

New conveyor-type bottling machine for liqueur and vodka. Spirit.
prom.21 no.3:37-40 '55.
(MIRA 8:12)

1. Leningradskiy likerno-vodochnyy zavod
(Bottling machinery)

STEPANOV & A
STEPANOV, I.A.; AZRIYELOVICH, S.S.

Leningrad Liqueur and Vodka Plant on the fortieth anniversary
of the October Revolution. Spirit.prom. 23 no.7:40-46 '57.

(MIRA 11:1)

(Leningrad--Liquor industry)

STEPANOV, I.A.; GALASOV, P.N.

Finnish state monopoly of alcoholic beverages. Spirt. prom. 24
no.5:36-41 '58. (Finland--Distilling industries) (MIRA 11:9)

STEPANOV, I.A.

Over-all mechanization and automation of the processes of
washing equipment, bottling and packing the finished product.
Spirt. prom. 24 no.6:4-9 '58. (MIRA 11:10)
(Bottling machinery) (Automation)

AZRIYLOVI, S.S.; STEPANOV, I.A.; BRAZHNIKOV, P.G.

Employees of the Leningrad Liqueur and Vodka Plant are greeting
the 21st Congress of the CPSU with new achievements. *Spirt.prom.*
25 no.1:11-12 '59. *(MIRA 12:2)*
(Leningrad--Distilling industries--Equipment and supplies)

GLAZUNOV, A.I.; KAMOVNIKOV, B.P.; KRAVCHENKO, V.S.; PIVOVAROV, V.G.;
STEPANOV, I.A.

Automatic control of alcohol in distilled liquors. Spirt.prom.
27 no.2:28-32 '61. (MIRA 14:4)
(Alcohol) (Automatic control)

KRAVCHENKO, V.S.; STEPANOV, I.A.; TIKHOMIROV, L.A.; KAMOVNIKOV, B.P.;
GLAZUNOV, A.I.

Automatic maintenance of constant pressure in continuous rectifying
columns. Spirt.prom. 27 no.3:29-33 '61. (MIRA 14:4)
(Leningrad—Liquor industry—Equipment and supplies)
(Distillation apparatus)

STEPANOV, I.A.; ANDREYEV, K.P.; USHAKOV, Ye.N.

Automatic distribution of containers on a conveyer moving
toward bottle-washing machines. Spirt.prom. 28 no.2:20-24
'62. (MIRA 15:3)

1. Leningradskiy kholodil'nyy institut (for Stepanov). 2. Leningradskiy likero-vodochnyy zavod (for Andreyev, Ushakov).
(Leningrad--Liquor industry--Equipment and supplies)

STEPANOV, I.A.

Efficient method of bottle washing. Spirt.prom. 29 no.2:5-9 '63.
(MIR 16:3)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
(Bottle washing)

GALASOV, P.N.; STEPANOV, I.A.

Continuous automatic bottling lines in the Leningrad Liqueur and
Vodka Distillery. Spir. prom. 29 no.6:20-23 '63. (MIRA 16:10)

1. Spetsial'noye konstruktorskoye byuro PPT Leningradskogo soveta
narodnogo khozyaystva (for Galasov). 2. Leningradskiy tekhnolog-
cheskiy institut kholodil'noy promyshlennosti (for Stepanov)
(Distilling industries—Equipment and supplies)
(Automation)

SPERCHOV, Anat. Aleksandrovich; VASIL'YEV, Boris Nik'itich; SHKOF',
V. F., spets. red.; KUVALINOVSKAYA, A. J., red.

[Continuous lines for bottling and sealing liquid foods and
beverages] Sistemnye linii razvivayushchey pishchevykh
sistem. Moscow, Pishchevaya promstolennost', 1965.
(MIRA 16:11)
316 p.

STEPANOV, I.A.

[Proportioning devices for food liquids] Doziruiushchie
apparaty dlia pishchevykh zhidkosteii. Moskva, TSentr.
in-t nauchno-tekhn. informatsii pishchevoi promyshl.,
1963. 46 p. (MIRA 17:5)

GALASOV, P.N.; STEPANOV, I.A.

Automatic production line for bottling in the Leningrad Liqueur and
Vodka Factory. Spirt.prom. 29 no.5:25-29 '63. (MIRA 17:2)

1. Leningradskiy likero-vodochnyy zavod (for Galasov). 2. Leningradskiy
tekhnologicheskiy institut kholodil'noy promyshlennosti (for Stepanov).

STEPANOV, I.A., inzh.

Wave damping by single breakwaters. Trudy LIVT no.8:35-41 '60.
(MIRA 15:2)
(Breakwaters)

SHTENTSEL', V.K., kand.tekhn.nauk, dotsent; STEPANOV, I.A., inzh.

Accuracy of laboratory wave investigations. Trudy LIVT no.8:58-62
'60. (MIRA 15:2)

(Hydraulic engineering—Research)

STEPANOV, I.A.

Balance of wave energy for a limited area of the sea. Okeanologija
1 no.4:638-641 '61. (MIRA 14:11)

1. Leningradskiy institut vodnogo transporta.
(Waves)

STEPANOV, I.A.

Balance of wave energy for the protected water area. Okeanologiya
1 no.5:851-855 '61. (MIRA 15:3)

1. Leningradskiy institut vodnogo transporta.
(Waves) (Hydraulic engineering)

STEPANOV, I.A., inzh.

The main beam of energy. Izv.vys.ucheb.zav.; energ. 4 no.9:104-
107 S '61. (MIRA 14:10)

1. Leningradskiy institut inzhenerov vodnogo transporta.
Predstavlena kafedroy protov i gidrotekhnicheskikh sooruzheniy.
(Waves) (Turbulence)

STEPANOV, I., inzh.

Calculating wave formations in harbors. Rech. transp. 20
no. 2:37-38 F '61. (MIRA 14:2)
(Waves)

STEPANOV, I.

Theoretical and actual wave disturbance behind a single breakwater.
Mor. flot 21 no. 5:32-34 My '61. (MIRA 14:5)

1. Starshiy inzh. Leningradskogo instituta vodnogo transporta.
(Waves)

L 01240-6	EDT(1)	5/1
ACC NR:	AR6021878	(N)
SOURCE CODE: UR/0124/66/000/003/B063/B063		
AUTHOR: <u>Stepanov, I. A.</u>		
TITLE: Approximate simulation of waves in a port		
SOURCE: Ref. zh. Mekhanika, Abs. 3B432		
REF SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 77, 1964, 44-54		
TOPIC TAGS: simulation, modeling, wave, wave modeling, <u>wave propagation</u>		
ABSTRACT: Considerations for modeling of waves on the surface of a fluid based on energy characteristics of a high <u>sea</u> are given. The problems of modeling a rough bottom and scale distortions are discussed as well as problems related to the effect of fluid viscosity on the propagation of waves on a model. A. S. Ofitserov. [Translation of abstract.] [AM]		
SUB CODE: 08/		

Card 1/1 hs

STEPANOV, I.D. (Angarsk)

Young men's mathematics school at Irkutsk. Mat. v shkole no.3:85
(MIRA 16x7)
My-Je '63.

(Irkutsk--Mathematics--Study and teaching)

AL'TER, L.B., doktor ekon. nauk; BLYUMIN, I.G., doktor ekon. nauk [deceased]; KARATAYEV, N.K., prof.; REUEL', A.L., doktor ekon. nauk; STEPANOV, I.G., doktor ekon. nauk; SSTEYN, V.M., doktor ekon. nauk; POLYANSKIY, F.Ya., doktorist. nauk; BOBKOV, K.I., kand. ekon. nauk; VASILEVSKIY, Ye.G., kand. ekon. nauk; MOROZOV, F.M., kand. ekon. nauk; PONOMAREV, Ye.I., kand. ekon. nauk; RYNDINA, M.N., kand. ekon. nauk; FIRSOVA, S.M., kand. ekon. nauk; TSAGA, V.F., kand. ekon. nauk; ZHUK, I., red.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., red.; ULANOVA, L., tekhn. red.

[History of economic theories] Istorija ekonomiceskikh uchenii. Moskva, Sotsekgiz, 1963. 549 p. (MIRA 17:2)

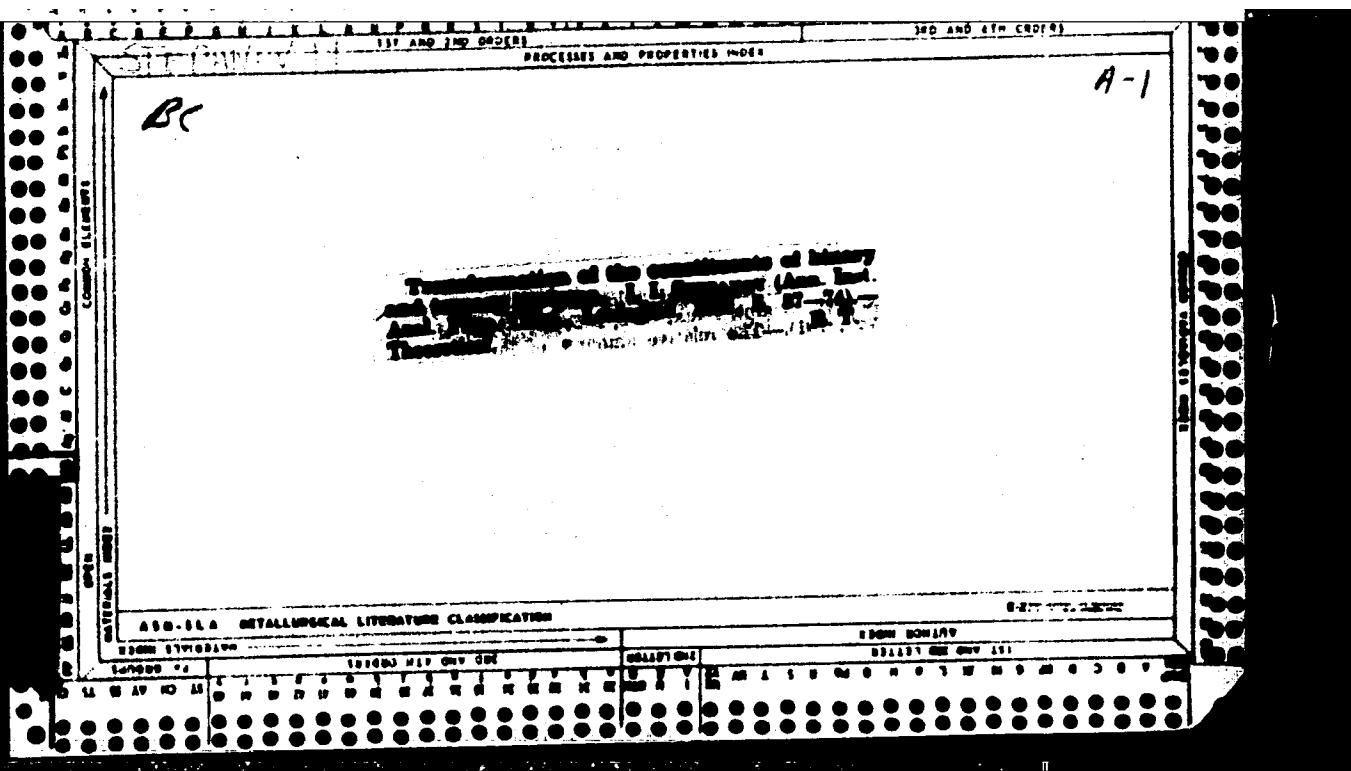
1. Akademiya nauk SSSR. Institut ekonomiki.

COUNTRY : USSR
CATEGORY :
ADM. JOUR. : RZhMed., No. 1059, №. 10006
AUTHOR : Stepanov, I. I.
INST. : Voronezh Medical Institute
TITLE : Variability of Virulent and Immunogenic Properties of Secondary Cultures of Flexner Dysentery During the Process of Reversion
OPRG. PUB. : Tr. Voronezhsk. med. in-ta, 1957, 28, 117-123
ABSTRACT : During the course of repeated passages of secondary regenerated cultures of Flexner dysentery bacteria (obtained as a result of the prolonged maintenance of phagolysates at 37°) in MPB containing 0.075% agar a regular increase in virulence and immunogenicity was noted. In 1 culture a complete restoration of the original virulence was observed. A secondary culture was obtained with immunogenic properties exceeding the immunogenicity of the original culture with reduced virulence. -- V. G. Petrovskaya

Card:

1/1

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STEPANOV, I. I.

T. F. Dankova, L. G. Evdskimova, I. I. Stepanov, and N. A. Preohrazhenskii, Investigations of syntheses in the series of analogs of colchicine alkaloid. p. 1724

The synthesis is described of new derivatives of β -phenyl-ethyl-amine which have in their structure a number of analogies with the proposed structure of colchicine and other known preparations with a growth-action.

The Moscow Lomonosov Inst. of Exact Chemical Technology.
November 10, 1946

SO: Journal of General Chemistry (USSR) 28, (80) No. 9 (1948)

STEPANOV, I. I.

USSR/Chemistry - Synthesis
Chemistry - Alkaloids

Sep 46

"Synthetic Research in a Series of Analogues of a Colchicine Alkaloid," T. F. Dankova, L. G. Yevdokimova, I. I. Stepanov, N. A. Preobrazhenskiy, Moscow Inst Fine Chem Tech imeni M. V. Lomonosov, 64 pp

"Zhur Obshch Khimii" Vol XVIII, No 9

Describes synthesis of new derivatives of β -phenylethylamine. Structurally, they have many analogies with the proposed structure of colchicine and other well-known preparations with growth action. Synthesizes β -anisil- γ -(4-methoxy-phenyl)-propylacetamide and β -(n-oxyphenyl)- γ -(4-methoxyphenyl)-propylamine. Also prepares methyl ester of oxymethylenecamphor and methyl and ethyl esters of camphocarboxylic acid. Submitted 10 Nov 46.

PA 30/49 TL3

366. COMPOSITION OF GAS FROM INDUSTRIAL LOW TEMPERATURE CARBONIZATION OF SHALE-KURINSITE. Kryli, A.T. and Dostrov, I.I. (IZV. Akad. Nauk. EstSSR (Bull. Acad. Sci. Eston. S.S.R.)), 1955, (7), 160-174; abstract in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (8), 23229. The composition of gas from the low temperature carbonization of shale at 450-480°C in tunnel kilns and retorting retorts was investigated. At 450°C the gas was rectified and gas analysis. The carbonization was carried out in a temperature rectified and gas kilns. The retorts were relatively small, about 1 cu.m. Each kiln produced 2.6 and 16.6, carbon and shale. The hydrogen 13 and 4.6, nitrogen plus oxygen 26.4 and 53.2 (air basis), hydrocarbons 14.4 and 10.6. The yield of gas from a ton of shale was 21 and 17 cu.m. The yield of hydrogen gases in % of shale by weight were, in saturated gases: methane 0.25, ethane 0.43, propane 0.38, butane 0.15; and in unsaturated gases: ethylene 0.16, propylene 0.31, and butylene 0.17. So far as the hydrocarbon portion is concerned gas from the low temperature carbonization of shale is similar to gas from the cracking of petroleum, and in the degree of unsaturation it comes somewhere between the products of liquid and solid phase cracking. It is suggested that the unsaturated hydrocarbons should be extracted for further chemical treatment and that liquefied propane plus butane should be produced for domestic and industrial purposes.

STEPANOV, I. I.

USSR Chemical Technology. Chemical Products and Their I-13
Application--Treatment of solid mineral fuels

Abs Jour: Ref Zhur-Khimiya, No 3, 1958, 9226

Author : Stepanov, I. I.
Inst : Academy of Sciences Estonian SSR
Title : High-Temperature Shale Gas

Orig Pub: Izv. AN ESSR, 1955, Vol 4, No 1, 57-64

Abstract: The composition and heat value of gas obtained by the high-temperature gasification of Estonian shales in an industrial horizontal [sic] Didier converter at 750-800° has been investigated. It is shown that the high-temperature decomposition of the shale proceeds with intensive gas evolution in two stages. In the first stage, large gas yields (216 m³/ton) are observed, the gas being rich in unsaturated hydrocarbons (C₂, C₃, and C₄); in the second stage the coking of the shale is completed and the yield of gas is low (34 m³/ton), the gas containing almost

Card 1/2

Abstract: no unsaturated hydrocarbons and a higher yield of CO (31.5-70.3 vol % against 7.8-14.5 vol % during the first stage). The concentration of H₂ at the

APPROVED FOR RELEASE 08/25/2000 ON CIA-RDP86-00513R001653210003-0" warcs the end to 9.8%. The concentration of CH₄ changes similarly from 14-18% in the first stage to 10-2% in the second stage; 60-70% of the C₂ fraction consist of ethylene. The average heat value of the gas in the first stage is 6200 kcal/m³ and in the second stage, 2930 kcal/m³, the overall heat value is 5800 kcal/m³. A comparison of the gas yields obtained in a laboratory reactor (330°), a rotating reactor (450°), a tunnel furnace (480°), and with the production of consumer (750°) and high-temperature (800°) gas has shown the advantages of the latter two methods (yields of 400 and 250 m³/ton compared to 20-25 m³ ton at 450° in the retort and 480° in the furnace).

Card 2/2

STEPANOV, I.I.

Using low-temperature rectification apparatus for the
analysis of producer gas. Gaz. prom. no. 3:29-30 Mr '57.
(MIRA 12:3)

(Gases--Analysis)

STEPANOV, I

KKR / General and Specialized Zoology. Insects. Harmful
Insects and Acarids. Chemical Methods in the Control of
Harmful Insects and Acarids.

F

Abstr Jour : Ref Zhur - Biol., No 18, 1958, No. 82926

Author : Stepanov, I.

Inst : Not given

Title : Concerning the Safeguarding of Plants and Wood Pulp
Obtained in the Shale Industry

Orig Pub : Techn. ja tootmine, 1957, No 5, 11-12 (Estonian)

Abstract : There is a description of toxic chemicals (oil for
impregnation of crossties, Carbolineum, shale oil in
the capacity of a herbicide, preparation 125, colloidal
sulphur, etc.), which may be prepared from Estonian shale.

Card 1/1

12

STEPANOV, I.I.

Organic sulfur compounds in domestic gas in Tallinn, Gas. prem. 4
no.2:33-35 F '59. (MIRA 12:3)
(Tallinn--Gases--Analysis) (Sulfur compounds)

PETUKHOV, Ye.P.; BERSHANOVICH, N.D.; STEFANOV, I.I.; SHELOUMOV, V.V.

Studies in the preparation of oil shale gas for the synthesis of
ammonia. Khim. i tekhn. gor. slan. i prod. ikh perer no.13:
142-151 '64. (MIRA 18:9)

ZEMSKOV, M.V.; IGNAT'YEVA, S.A.; MOROZOVA, V.P.; STEPANOV, I.I.; ZHURAVLEVA, N.V.

Yeast-induced production of antibodies, resistance and plasmoblastic reaction in animals. Zhur.mikrobiol., epid. i immun. 42 no.3:130-133 Mr '65. (MIRA 28:6)

1. Voronezhskiy meditsinskly institut.

STEPANOV I. I.

AID P - 5372

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 2/28

Author : Stepanov, I. I.

Title : Special shape grinding machine

Periodical : Stan. i instr., 9, 5-7, S 1956

Abstract : The KhSh-116 model semi-automatic grinding machine with hydraulic drive and with polishing wheel 700 to 1,100mm in diameter for machining complicated surfaces of aerodynamic profile, such as blades for gas turbines and compressors, is described and illustrated. Four drawings and 2 photos.

Institution : Khar'kov Machine-tool Plant

Submitted : No date

STZEPANOV, I.I.

External appearance of machine tools. Stan.1 instr. 27 no.10:23-25
0 '56. (MLRA 9:12)
(Machine tools--Design)

STEPANOV, IGOR' MIKHAILOVICH

N/5
783.301
.S8

Rabota Rayonnogo Soveta V Oblasti Planirovaniya I Byudzheta (Work of Soviet Districts in Field of Planning and Budget) Moskva, Gosyurizdat, 1956.

47 p. Tables.

Bibliographical footnotes.

At head of title: Akademiya Nauk SSSR. Institut Prava.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653210003-0

STEPANOV, IVAN MIKHAILOVICH

DECEASED

c. 1920

1964

Turbines

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CIA-RDP86-00513R001653210003-0"

STEPANOV, I. N.

Novable supports for mine workings. Stepanov, I.N. (Moscow: Ugletekhnizdat, 1951, 112 p.; str. in Ural (Coal), Jan. 1951, 47)

Examples are given of typical designs. The theory on which they are based is explained. The handling of novable supports in mining thick steeply dipping seams in Kuzbass is described.

immediate source clipping

STEPANOV, I.N.

Experience in managing the combined means of communications. Vest.sviashi
14 no.4:25-27 Ap '54. (MLRA 7:6)

1. Nachal'nik Vladimirs'koy oblastnoy direktsii radiotranslyatsionnoy seti.
(Telecommunication)

OSIPOV, V.G.; VOLKOV, V.S.; KIZEVETTER, I.V.; STEPANOV, I.N.,
red.

[Tuna fish] Tunitsy. Vladivostok, Tikhookeanskii in-t
rybnoego khoz. i okeanografii, 1963. 68 p. (MIRA 17:4)

L 22903-65 EPF(c)/EPR/EWG(s)-2/EWP(j)/EWT(m)/T/EWP(v) PC-4/Pr-4/Ps-4/
Pw-4 RM/WW/ /
ACCESSION NR: AP5001776 S/0097/64/000/009/0420/0421

AUTHOR: Stepanov, I. N. (Engineer, Director) 43
B

TITLE: Polymer films replacing lubrication

SOURCE: Beton i zhelezobeton, no. 9, 1964, 420-421

TOPIC TAGS: polymer, polymer film, construction material, concrete, phenolformaldehyde

ABSTRACT: About 15% of the expense involved in producing concrete and ferroconcrete objects is caused by form-setting and removal and handling of forms. The author cites conventional methods of form lubrication as being unwieldy and inefficient. Pre-greased forms must usually receive supplementary applications of grease on the job site. The Tsentral'naya nauchno-issledovatel'skaya laboratoriya Glavtsentrostroya Ministerstva stroitel'stva RSFSR (Central Scientific Research Laboratory of Glavtsentrostroy at the Ministry of Construction, RSFSR) developed a new polymer substance which, when applied to a form surface, eliminates the disadvantages of grease lubrication. The polymer is based upon phenolformaldehyde with filler substances. The polymer takes the form of a thin film applied to the form surface. The ingredients used in preparing the polymer are: MPF-1 (BTU M-800-58) 15

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L 22903-65

ACCESSION NR: AP5001776

3
glue, RA-6 (TU-4082-55) lacquer, type "A" (GOST 901-56) bakelite lacquer, acetone (GOST 2603-51), and ethanol (GOST 8314-57). Two mixtures are prepared: mixture number 1 consisted of (based on 10 liters total volume) 1.3 liters MPF-1 glue, 5.0 liters ethanol, 1.3 liters RA-6 lacquer, and 2.4 liters acetone; the second mixture: 1.5 liters RA-6 lacquer, 3.9 liters ethanol, 0.7 liters type "A" bakelite lacquer, and 3.9 liters acetone. Twenty liters of the final mixture result in the aggregate proportions of mixtures 1 and 2; this amount is sufficient for about 100 m² of smooth metal surface. Polymerization occurs at +170C in a metallic heat chamber. The total preparation-polymerization process takes 105 minutes, not including cooling time. The author describes in detail the sequences of mixture application, heating, and other procedures necessary to produce the film. Field tests of the film-covered forms were conducted by the KPP Combine Mosoblistroy No. 6. Sixty uses of the forms resulted in no damage to the film surface. Preliminary estimates indicate a cost of about 0.5 kopeks to produce the film.

ASSOCIATION: Tsentrostroytsnii

SUBMITTED: 00

ENCL: 00

SUB CODE: MF

NO REF Sov: 000

OTHER: 000

Card 2/2

STEPANOV, I. N.

New glaciological data on the Kok-Su Valley (western Tien Shan).
Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:140-142 '59.
(MIRA 12:6)

1. Moskovskiy universitet, biologo-pochvennyy fakul'tet, kafedra
fiziki i melioratsii pochv.
(Kok-Su Valley (Tien Shan)--Drift)

3(5)

SOV/20-125-1-41/67

AUTHOR:

Stepanov, I. N.

TITLE:

Snow Cover as One of the Factors Contributing to the Formation
of a Loess-like Soil (Snezhnyy pokrov kak odin iz faktorov
obrazovaniya lessovidnykh melkozemistykh tolshch)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 153-154
(USSR)

ABSTRACT:

In the region of the Tyan'-Shan' Highlands the weathering products of the rocks are deposited as a fine dust. The author has observed the important role the snow fields of Western Tyan'-Shan' play in this process. The aeolian products and dust of erosion brought in by prevailing winds from the foothills are caught on the snow fields. The deposition of these products in negative relief forms and in the wind shadows of slopes is thus favored. The role of rain water in the formation of relief in the high mountains is reduced to minimum because in this area the precipitation the whole year long is snow and hail. The giant snow fields have a large specific surface area and porosity. Because of this the lowermost air layer is cooled and the air becomes dense and stagnant. This favors the precipitation of

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SOV/20-125-1-41/67

Snow Cover as One of the Factors Contributing to the Formation of a Lcess-like
Soil

dust particles on the snow surface. The data obtained on solid particles acquired by evaporation of the water are shown in table 1. From this it can be seen that the amount of dust particles ranges from 10-25 metric tons/km² of snow surface to 1-2.5 kg/m³ of snow. Moreover one of the muddiest rivers of the Tyan'-Shan' area, the Naryn River where it leaves the Fergana Valley, yielded 1.09 kg solid particles per m³ (Ref 1). Under the microscope the mineral content of the dust shows a close relationship with the surrounding rocks. The main source of the aeolian dust, then, is the bare rocks, the morains etc of the alpine zone. The dust is produced by physical and biological erosion. However, the snowfields do not lack in aeolian dust from the foothill-plains (Ref 2). Although the amount of dust of the latter sort is not great, it has important significance, because it contains carbonate particles. The mechanical constitution of the dust was determined by the method of N. A. Kachinskiy. The movement of dust during different seasons is described. In spring and summer the dust accumulates on the edge

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SOV/20-125-1-41/67
Snow Cover as One of the Factors Contributing to the Formation of a Loess-like
Soil

of the melting snow fields (2800 m elevation). These crusts
weigh 350 g/m². They contribute to the soil-building process.
There are 1 table and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: November 18, 1958, by N. M. Strakhov, Academician

SUBMITTED: November 12, 1958

Card 3/3

STEPANOV, I.N.

Tien Shan snowflakes. Priroda 50 no.1:109-110 Ja '61. (MIRA 14:1)

1. Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova.
(Tien Shan—Snow)

KISIN, I.M.; STEPANOV, I.N.

Amount of solid mineral particles in glaciers of the Caucasus. Dokl.
AN SSSR 137 no.5:1195-1197 Ap '61. (MIRA 14:4)

1. Upravleniye gidrometsluzhby AzerSSR. Predstavлено akademikom
N.M.Strakhovym.
(Caucasus--Glaciers)

STEPANOV, I.N.

Snow cover and the formation of alpine soils. Pochvovedenie no.3:44-
52 Mr '62. (MIRA 15:7)

1. Gosudarstvennyy inzhenerno-preyektnyy institut po vodnomu
khozyaystvu Azerbaydzhanskoy SSR.
(Soil formation) (Snow)

STEPANOV, I.N.; AGAYEV, Sh.M.

System of hydrochemical zoning of the snow cover in Azerbaijan.
(MIRA 16:12)
Za tekhn. prog. 3 no.7:38-41 J1 '63.

1. Azerbayzhanskiy gosudarstvennyy institut po proyektirovaniyu
vodokhozyaystvennogo stroitel'stva (for Stepanov). 2. Upravleniye
gidrometallurgicheskoy sluzhby Azerbayzhanskoy SSR (for Agayev).

ALIYEV, G.A.; STEPANOV, I.N.

Some characteristics and similarities of brown forest soils in the
central Karabakh Steppe. Dokl. AN Azerb. SSR 19 no.4:49-53 '63.
(MIRA 16:12)

1. Institut pochvovedeniya i agrokhimii AN Azerbaydzhanskoy SSR.

STEPANOV, I.N. (Tashkent)

Colored snowbanks. Priroda 52 no.6:120-121 '63. (MIRA 16:6)
(Snow--Microbiology)

AGAYEV, Sh.M.; STEPANOV, I.N.

Chemical composition of atmospheric precipitation in Azerbaijan. Dokl.
AN SSSR 154 no.6:1359-1360 F '64. (MIRA 17:2)

1. Upravleniye gidrometeorologicheskoy sluzhby AzerbSSR.

STEPANOV, I.N.

Weathering processes in ice-type lithogenesis. Lit. i pol. iskop.
no.5:109-110 S-0 '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy institut lemnogo khozymystva, Tashkent.

KREYTSER, Boris Aleksandrovich; STEPANOV, Ivan Prokof'yevich; PETROVSKAYA,
Ye.K., red.; KORNEYEVA, M.G., tekhn.red.

[Shotgun firing pattern] Drobivoi vystrel. Moskva, Gos.izd-vo
"Fizkul'tura i sport," 1959. 71 p. (MIRA 12:12)
(Shotguns)

SCHASTNYY, N.G., inzh.-polkovnik; KISELEV, A.M., podpolkovnik
tekhn. sluzhby; SOLDATOV, A.S., inzh.-polkovnik;
KOLESISKIY, L.Ya., inzh.-polkovnik; STEPANOV, I.P.,
podpolkovnik; SMIRNOV, V.I., inzh.-kapitan 2 rangi;
MOROZOV, B.N., red.

[Invention and innovation in the Armed Forces of the
U.S.S.R.] Izobretatel'stvo i ratsionalizatsiya v vooru-
zhennykh silakh SSSR. Moskva, Voenizdat, 1964. 93 p.
(MIRA 17.12)

KARPUKHIN, Georgiy Ivanovich; STEPANOV, I.A., red.

[Bacteriological examination and disinfection of the air]
Bakteriologicheskoe issledovanie i obezzarazhivanie voz-
dukha. Moskva, Medgiz, 1962. 255 p. (MIRA 18:5)

STEPANOV, I.R.

[Disinfection, disinsectization, deratization] Dezinfektsiia, dezinsktsiia, deratizatsiia. 2. izd. Moskva, TSentr. in-t usovershenstvovaniia vrachei, 1963. 180 p. (MIRA 17:12)

STEPANOV, I.S.

Ways to improve the quality of footwear. Kozh.-obuv.prom. 2
no.1:23-24 Ja '60. (MIRA 13:5)
(Shoe manufacture)

SKOROV, V.A.; STEPANOV, I.S.; SHAKHNAZAROV, A.K., inzhener-metallurg, pensioner; PETROV, V.I., Geroy Sotsialisticheskogo Truda; BARYSHNIKOV, I.F., starshiy inzhener; BUGAREV, L.A.; LAKERNIK, M.M., kand.tekhn. nauk; SHEYN, Ya.P.; MOLCHANOV, A.A.

The greatest objective of our life. TSvet.met. 34 no.10:1-10
0 '61. (MIRA 14:10)

1. Glavnyy inzhener Skopinskogo zavoda "TSvetmet" (for Skorov).
2. Zamestitel' predsedatelya Mezhdovedomstvennoy komissii po redkim metallam pri Gosudarstvennom komitete Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot (for Stepanov).
3. Rukovodite' brigady kommunisticheskogo truda elektrolyznogo tsekha. Ural'skogo alyuminiiyevogo zavoda (for Petrov).
4. Otdel tsvetnoy metallurgii Gosplana SSSR (for Baryshnikov.).
5. Nachal'nik podotdela otstola ekonomiki i razvitiya tsvetnoy metallurgii Gosekonomsoveta SSSR (for Bugarev). 6. Zamestitel' direktora po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov (for Lakernik). 7. Starshiy ekspert upravleniya Gosudarstvennogo komiteta Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for Sheyn). 8. Glavnyy spetsialist otdela tsvetnoy metallurgii Gosplana SSSR (for Molchanov).

(Communism)

STEPANOV, I.S.

"Quantitative Characteristics of the Degree of Uniformity of Mineralization $X^{\frac{a}{b}}$,"
Dok. AN, 30, No. 6, 1941.

172/170/171, 212
ZELIKMAN, A.N.; SAMSONOV, G.V.; KREYN, O.Ye.; STEPANOV, I.S., inzhener, retsensent; TANANAYEV, I.V., retsensent; PODOLSKY, G.M., professor, doktor, zasluzhennyy deyatel' nauki i tekhniki, retsensent; ROM, Ye.Ye., professor, doktor, retsensent; ABRIKOSOV, N.Ih., doktor khimicheskikh nauk, retsensent; SHAMRAY, F.I., doktor khimicheskikh nauk, retsensent; MOROZOV, I.S., kandidat khimicheskikh nauk, retsensent; BOOM, Ye.A., kandidat khimicheskikh nauk, retsensent; NIKOLAYEV, N.S., kandidat khimicheskikh nauk, retsensent; ZVORYKIN, A.Ye., kandidat khimicheskikh nauk, retsensent; BASHILOVA, N.I., kandidat khimicheskikh nauk, retsensent; VYSOTSKAYA, V.N., redaktor; KAMAYEVA, O.M., redaktor; ATTOPOVICH, M.K., tekhnicheskiy redaktor

[Metallurgy of rare metals] Metallurgiia redkikh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954. 414 p. (MIRA 7:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Tananayev)
(Metals, Rare--Metallurgy)

BEUS, Aleksey Aleksandrovich; STEPANOV, I.S., redaktor; SEMKOVA, O.V.,
redaktor; KRYNOCHKINA, K.V., tekhnicheskiy redaktor.

[Beryllium; appraisal of deposits in prospecting] Berillii; otsevka
nestorozhdenii pri poiskakh i razvedkakh. Moskva, Gos.nauchno-tehn.
izd-vo lit-ry po geologii i okhrane nedr, 1956. 147 p. (MLRA 9:5)
(Beryllium)

Stepanov, I.S., brigadir; Zakhoder, M.A., inzh.

Equipment for winding home cable on the SBK-1 and T-128
tower cranes. Rats. i izobr. predl. v stroi. no.2:48-52 '57.
(MIRA 11:1)

1. Tresta Mosstroymekhanizatsiya No.1 (Slavmosstroya.
(Cranes, derricks, etc.)

STEPANOV, I.S.

"Rare metals and their use in industry" by K.I.Lukashev. Reviewed
by I.S.Stepanov. TSvet.met. 30 no.8:83-84 Ag '57. (MIRA 10:10)
(Nonferrous metals) (Earths, Rare)
(Lukashev, K.I.)

AUTHOR: Stepanov, I.S.

SOV/136-58-9-21/21

TITLE: New Data on the Prices in the USA of Some Compounds of Rare-earth Group Elements (Novyye dannyye o tsenakh v SSHA na nekotoryye soyedineniya elementov iz gruppy redkikh zemel')

PERIODICAL: Tsvetnyye Metally, 1958, Nr 9, pp 89 - 93 (USSR)

ABSTRACT: Based on the information sheets of the Lindsey Chemical Company (USA) of April and December, 1957, the author tabulates the USA prices of a number of rare-earth compounds and discusses their possible significance as a pointer to eventual costs of production in the USSR. There is 1 table.

1. Rare earth compounds--USA 2. Rare earth compounds--Costs

Card 1/1

DISCONE-DC-55-184

STEPANOV, I.S.; PETROV, G.I., nauchnyy red.; NEKRASOVA, N.B., red.
izd-va; IVANOVA, A.G., tekhn.red.

[Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia;
spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po geologii i okhrane nedr. No.45. [Zirconium
and hafnium] TSirkonii i gafnii. Nauchn.red. G.I.Petrov. 1959.
34 p. (MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-
ral'nogo syr'ya.

(Zirconium) (Hafnium)

BEUS, A.A.; STEPANOV, I.S., nauchnyy red.; NEKRASOVA, N.B., red.izd-va;
IVANOVA, A.G., tekhn.red.

[Trebovaniia promyshlechnosti k kachestvu mineral'nogo syr'ia;
spravochnik dlia geologov. Izd.2.. perer. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po geologii i okhrane nedr. No.36. [Beryllium].
Berillii. Nauchn.red. I.S.Stepanov. 1959. 35 p.

(MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-
rai'nogo syr'ya.

(Beryllium)

TERENT'YEVA, K.F.; GINZBURG, A.I., slavnvv red.; MAIYSHEV, I.I., red.;
RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, F.A., red.;
FACUTOV, V.P., red.; FILIUSHOV, N.A., red.; CHERNOVITOV, Yu.L.,
red.; SHMANENKOV, I.V., red.; SHERBINA, V.V., red.; EYGELES, M.A.,
red.; ROZHKOVA, L.G., red.izd-va; GUROVA, O.A., tekhn.red.

[Rare elements in bauxites] Redkie elementy v boksitakh. Moskva,
Gos.nauchn-tekhn. izd-vo lit-ry po geol.i okhr.nedr, 1959. 47 p.
(Geologiya mestorozhdenii redkikh elementov, no.6). (MIG 13:12)
(Metals, Rare and minor) (Bauxite)

ZIV, Ye.F.; VAYSBERG, A.I.; STEPANOV, I.S., nauchnyy red.; YERSHOV, A.D., glavnnyy red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KRUYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L., red.; SHIMANOVKOV, I.V., red.; NEKRASOVA, N.B., red.izd-va; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov, Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.49. [Niobium and tantalum] Niobii i tantal. Izd.2., perer. 1959. 49 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Niobium) (Tantalum)

STEPANOV, I.S.; CHERNOVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'IEV, D.V., red.; KHRUSHCHOV, N.A., red.; SHAMENKOV, I.V., red.; STOLYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.46. [Rubidium and cesium] Rubidii i tsezii. Nauchn.red. IU.L. Chernosvitov. 1960. 33 p. (MIRA 14:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.
(Rubidium) (Cesium)

SHCHERBINA, V.V.; GINZBURG, A.I., red. vypuska; MALYSHEV, I.I., red.; POLYAKOV, P.A., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red. EYGELES, M.A., red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA, Ye.S., tekhn. red.

[Geology of rare metal deposits] Geologija mestorozhdenii redkih elementov. No. 8 [Geochemical characteristics of scandium and types of its deposits.] Osobennosti geokhimiia skandiia i tipy ego mestorozhdenii. Moskva, Gos.nauch.-tekhn.izd-vo lit-ry po geol. i okhr. nedr, 1960, 56p. (Geologija mestorozhdenii redkih elementov, no. 8).

(Scandium)

(MIRA 13:11)

BUTKEVICH, T.V.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L.,
zamestitel' glav. red.; SHMAREMKOV, I.V., zamestitel' glav.
red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; ZUBAREV, N.N.,
red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV,
A.T., red.; KHRUSHCHEV, N.A., red.; STEPANOV, I.S., nauchnyy
red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA, Ye.S.,
tekhn. red.

[Industry's requirements as to the quality of mineral raw
materials; handbook for geologists] Trebovaniia promyshlenni-
nosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geolo-
gov. Izd. 2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit- ry
po geol. i okhrane nedr. No. 43. [Tungsten] Vol'fram. 1960. 61 p.
(MIRA 14:5)

l. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mi-
neral'nogo syr'ya.

(Tungsten)

GINZBURG, A.I.; GOMZHEVSKAYA, S.A.; YEROFEEVA, Ye.A.; SIDORENKO, G.A.;
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
KIRUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L., red.; SEMENENOV, I.V.,
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; KEMANOVA, G.F.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Titanates, tantalates, and niobates] Titano-tantalo-niobaty.
Moskva. Gos. nauchno-tekhn.izd-vo lit-ry po geol.i okhrane nedr.
Part 1. 1960. 166 p. (Geologija mestorozhdenij redkikh elementov,
no.10). (MRA 14:6)

(Titanates)

(Tantalates)

(Niobates)

STEPANOV, I.S., aspirant

Classification of cultivated slightly Podzolic sandy loam turf
soils [with summary in English]. Izv. TSKhA no.4:204-213 '60.
(MIRA 13:9)

(Soils--Classification)

SHEYNMANN, Yu.M.; APEL'TSIN, F.R.; NECHAYEVA, Ye.A.; GINZBURG, A.I., red.;
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V.,
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ROZHKOVA, L.G.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Alkaline intrusions, their distribution, and the mineralization
associated with them] Shchelochnye intruzii, ikh razmeshchenie i
sviazannaia s nimi mineralizatsiia. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po geol.i okhrane nedr, 1961. 176 p. (Geologija
mestorozhdenii redkikh elementov, no.12/13). (MIRA 15:8)
(Rocks, Igneous) (Ore deposits)

SHVEY, Igor' Vladimirovich; GINZBURG, A.I., glavnny red.; POLYAKOV, M.V., zamestitel' glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ENTIN, M.L., red.izd-va; BYKOVA, V.V., tekhn.red.

[Basic geochemical problems of rare earth elements and yttrium in endogenic processes] Osnovnye voprosy geokhimii redkozemel'nykh elementov i ittria v endogennykh protsessakh. Moskva, Gos. nauchn.-tekhn. izd-vo lit-ry, po geologii i okhrane nedr, 1962. 105 p. (Geologiya mestorozhdenii redkikh elementov, no.15). (MIRA 15:11) (Rare earth metals) (Yttrium)

STEPANOV, I.S.

Asha series in the basin of the Chusovaya River. Dokl. AN
SSSR 143 no.1:201-203 Mr '62. (MIRA 15:2)

1. Permskiy geologorazvedochnyy trest. Predstavлено akademikom
D.V.Nalivkinym.
(Chusovaya Valley—Geology, Stratigraphic)

STAVROV, O.D.; GINZBURG, A.I., glavnnyy red.; POLYAKOV, M.V., zam. glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FACUTOV, V.P., red.; KHRUSHCHEV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; FEDOTOVA, A.I., red.izd-va; IYERUSALIMSKAYA, Ye., tekhn. red.

[Basic characteristics of lithium, rubidium, sesium in the process of the formation granite intrusives and the pegmatites connected with them.] Osnovnye cherty geokhimii litiia, rubidiiia, tseziia v protsesse stanovleniya granitnykh intruzivov i sviazannykh s nimi pegmatitov. Moskva, Gosgeoltekhnizdat, 1963. 140 p. (Geologiya mes-torozhdenii redkikh elementov, no.21). (MIRA 17:2)

STEPANOV, I.S.

Nature of the most recent tectonic movements on the western slope
of the Central Urals. Dokl. AN SSSR 152 no.5:1218-1221 O '63.
(MIRA 16:12)

1. Predstavleno akademikom I.P.Gerasimovym.

STEPANOV, I. S.

Origin of the orthogonal drainage network based on the example
of the rivers of the western slope of the Central Ural Mountains.
Izv. Vses. geog. ob.-va 96 no. 2:130-133 Mr-Ap '64. (MIRA 17:5)

GORZHEVSKAYA, Susanna Aleksandrovna; SIDORENKO, Galina Aleksandrovna;
GINZBURG, A.I., glavnnyy red.; POLYAKOV, M.V., zamestitel' glavnogo
red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G.,
red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P.,
red.; CHERNOSVITOY, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA,
V.V., red.; EYGELES, M.A., red.

[Titano-tantalo-niobates. Part 2.] Titano-tantalo-niobaty.
Moskva, Nedra. Pt.2. 1964. 115p. (Geologiya mestorozhdenii
redkikh elementov, no.23) (MIRA 18:1)

STEPANOV, I.S.

Structure of the Basegi Range and the stratigraphic position
of the Oalyanka series in the cross section of ancient formations
in the western slope of the Central Urals. Biul. MOIP Otd. geol.
40 no.4:58-60 J1-Ag '65. (MIRA 18:9)

BLOKH, A.M.; KOCHENOV, A.V.; GINZEURG, A.I., glavnnyy red.; APEL'TSIN, F.R., red.;
GRIGOR'YEV, V.M., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FACUTOV, V.P., red.;
CHERNOSVITOVA, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V.,
red.; EYGELES, M.A., red.

[Impurity elements in bone phosphate of fossil fishes.] Elementy-
primesi v kostnom fosfate iskopaemykh ryb. Moskva, Nedra, 1964.
106 p. (Geologija mestorozhdenii redkikh elementov, no.24).
(MIRA 19:1)

KUDRIN, V.S.; KUDRINA, M.A.; SHURIGA, T.N.; GINZBURG, A.I., glavnnyy red.;
AYEL'TSIN, F.R., zamestitel' glavnogo redaktora; CHERNYSHEVA,
L.V., red.; BEUS, A.A., red.; GREKULOVA, L.A., red.;
GRIGOR'YEV, V.M., red.; ZABOLOTNAYA, N.P., red.; MATIAS, V.V.,
red.; POKALOV, V.T., red.; RODIONOV, G.G., red.; STEPANOV, I.S.,
red.; CHERNOSVITOV, Yu.I., red.; SHMANENKOV, I.V., red.

[Rare-metal metasomatic formations associated with subalkaline
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S/564/57/000/000/015/029
D258/D307

AUTHORS: Stepanov, I. V., and Feofilov, P. P.

TITLE: Artificial fluorite

SOURCE: Rost kristallov; doklady na Pervom soveshchanii
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AN SSSR, 1957, 229-241

TEXT: A brief review is first given of the advantages and applications of fluorite in optics, and of the necessary conditions during the production of artificial crystals. In the present work the author used a variation of the method proposed I. V. Obreimov and L. V. Shubnikov and perfected by P. W. Bridgman (Proc. Am. Acad. Sci., 60, 306 (1925)). Combination of high temperatures and low pressures was achieved by (1) reduction of the space to be evacuated, (2) elimination of gas-retaining materials, or of those whose vapor pressure exceeded 10^{-5} torr at working temperatures, from the evacuated space,

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D258/D307

Artificial fluorite...

(3) water-cooling of all parts which did not have to be maintained at high temperatures. The crystals were grown in 0.15 - 0.2 mm thick Mo crucibles. The apparatus is illustrated and described. The starting materials used were technical fluorite (after removal of impurities) and high-purity artificial CaF_2 . The process itself consisted of charging the crucible with CaF_2 containing 0.25% by weight of PbF_2 (to convert any CaO back to CaF_2) and slowly raising the temperature to the m.p. of the

charge, keeping the pressure below 10^{-3} torr. The crucible was then moved into a cooler part of the furnace; monocrystals were obtained only when this transfer was slow. Crystals were then annealed at 1100°C , cooling very slowly to room temperature. More than 1000 specimens were obtained by this method, 40 mm in dia. (200 g) or 60 mm in dia. (~ 800 g). Physical properties of artificial and natural crystals are compared. In the short-wave range, the spectral transmissivity began at $210 \text{ m}\mu$ in artificial

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